

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Vemuri B. Reddy et al.  
Serial No: 548,228  
Filed : November 2, 1983  
For : Heteropolymeric Proteins

Art Unit: 127  
Examiner: Giesser

Commissioner of Patents and Trademarks  
Washington, DC 20231

Sir:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on ..... 12/11/85.....

Amendment

.....*Pamela J. Peckover*

Responsive to the Office Action mailed on July 26,  
1985, kindly amend the application as follows.

DEC 26 1985  
**GROUP 120**

In the claims:

Cancel Claims 2, 4, 6, 8, 16, 32, 36, and 39.

Amend claims 1, 5, 6, 9, 22, 29, 33, 34, and 35 as follows:

--1. (Twice Amended) [A] The biologically active heterodimeric human fertility hormone [selected from hCG,] LH [, and FSH], said LH [hormone] comprising an alpha and a beta subunit, each said subunit being encoded in nature by a distinct mRNA and being synthesized by a cell comprising an expression vector comprising heterologous DNA encoding said subunit [.], said LH being completely free of FSH and hCG.

B2 C2m 1-8. (Twice Amended) A cell comprising a first eukaryotic mammalian expression vector, said cell being capable of producing a heterodimeric an alpha subunit and a beta subunit biologically active human fertility hormone comprised of two subunits, each said subunit being encoded in nature by a 30074 01/14/86 548228 06-1050 030 202 34.00CH distinct mRNA, said hormone being selected from the group consisting essentially of hCG, and LH, [and FSH,], the alpha subunit one or both said subunits of said hormone being encoded [at least in part and by said first expression vector. *et*